

00684.003275.37

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of:	)	
YOSHIAKI SHIRATO, ET AL.	)	Examiner: J. Stephens
Reissue of: U.S. Patent No. 5,933,165	)	
Issue Date: August 3, 1999	)	Group Art Unit: 2853
Reissue Appln. No.: 09/921,333	)	
Filed: August 3, 2001	)	
For: INK JET RECORDING APPARATUS	)	
AND METHOD USING INK JET	)	
HEAD HAVING U-SHAPED WIRING	)	

Commissioner for Patents  
Washington, DC 20231

**ATTENTION: APPLICATION DIVISION  
SPECIAL HANDLING UNIT**

SUBSTITUTE REISSUE APPLICATION DECLARATION BY  
THE INVENTORS AND POWER OF ATTORNEY

Sir:

As a below named joint inventor, I hereby declare and say that:

1. I believe that I am an original, first and joint inventor of the subject matter which is claimed in the subject reissue application and for which a reissue patent is sought on the invention entitled INK JET RECORDING APPARATUS AND METHOD USING INK JET HEAD HAVING U-SHAPED WIRING.
2. I have reviewed and understand the contents of the reissue application, including the claims.

3. I acknowledge my duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 C.F.R. 1.56.

4. I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or §365(b), of the foreign application for patent identified below and have also identified below any foreign application for patent or inventor's certificate or PCT international application having a filing date before that of the application on which priority is claimed:

<u>Country</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Priority Claimed</u>
Japan	54-39478	April 2, 1979	Yes

5. I verily believe the original patent to be wholly or partly inoperative or invalid by reason of the patentees claiming more or less than they had the right to claim in the patent.

6. I believe that the above-referenced patent is partly inoperative by reason of my having claimed less than I had the right to claim. Specifically, new claims 6-25 should be included in the patent. The new claims 6-25 are broader in some aspects and narrower in other aspects than original patent claims 1-5.

As to broadening aspects, new claims 14-25, for example, do not recite that "each said pair of electrodes and each corresponding heat generating resistance member integrally form a U-shaped wiring member with a bent portion." Such narrow language in the patent claims is believed to be an error. Rather, certain new claims recite "each of the plurality of heat generating resistance members being connected to a selective electrode and ground electrode, wherein each heat generating resistance member and

corresponding selective and ground electrodes integrally form a U-shaped conductive path.”

As for narrowing aspects, new claims 14-17, for example, recite “each heat generating resistance member being a planar member having a longer side extending along the liquid passageway and a shorter side orthogonal to the liquid passageway, with the longer side having a length at least two times as long as the length of the shorter side.” New claims 18-21, for example, recite “each selective electrode, ground electrode and corresponding heat generating resistance member are laminated in at least two layers.” New claims 22-25, for example, recite “each said pair of electrodes and each corresponding heat generating resistance member are laminated in layers.” The original claims did not recite such features.

7. All errors which are being corrected in the present reissue application up to the time of filing this declaration arose without any deceptive intent on my part.

8. The errors to be remedied by this reissue application arose due to the failure to appreciate that the claims directed to an embodiment of my invention were rewritten more narrowly than the scope of my actual invention as disclosed in the originally filed application.

9. I hereby appoint the practitioners associated with the firm and Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and direct that all correspondence be addressed to the address associated with that Customer Number.

**FITZPATRICK, CELLA, HARPER & SCINTO**

**Customer Number: 05514.**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001

of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole Inventor YOSHIKAKI SHIRATO  
Inventor's Signature Yoshikaki Shirato  
Date August 5, 2007 Citizen/Subject of JAPAN  
Residence Tokyo, JAPAN

Post Office Address c/o Canon Kabushiki Kaisha  
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

Full Name of Second Joint Inventor YASUSHI TAKATORI  
Inventor's Signature Yasushi Takatori  
Date Aug 3, 2007 Citizen/Subject of JAPAN  
Residence Sagamihara-shi, Japan

Post Office Address c/o Canon Kabushiki Kaisha  
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

Full Name of Third Joint Inventor TOSHITAMI HARA  
Inventor's Signature Toshitami Hara  
Date August 2, 2007 Citizen/Subject of JAPAN  
Residence Tokyo, Japan

Post Office Address c/o Canon Kabushiki Kaisha  
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

Full Name of Fourth Joint Inventor YUKUO NISHIMURA  
Inventor's Signature Yukuo Nishimura  
Date August 10, 2007 Citizen/Subject of JAPAN  
Residence Urawa-shi, Japan

Post Office Address c/o Canon Kabushiki Kaisha  
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

Full Name of Fifth Joint Inventor MICHIKO TANAKA

Inventor's Signature Michiko Tanaka

Date August 8, 2017 Citizen/Subject of JAPAN

Residence Yokohama-shi, Japan

Post Office Address c/o Canon Kabushiki Kaisha

30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

FCHS\_WS 1427361v1

MAW:yr